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S17 8	1	"5841740".pn. AND (discard$3 delet$4 eras$4 trash$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:29
S18 0	2	"6349349 ".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:30
S17 9	2	"6779079".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:31
S18 1	0	("6349349" "6779079").pn. AND (stream$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:32
S18 3	1	S182 AND (stream$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:39
S18 2	13	("6349349" "6779079" "6253232" "6341278" "6321237" "6349349" "5897631" "6253232" "5933534" "5740435").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:39

S16 6	82	(generat$4 WITH stream$1 WITH (unique$1 NEAR2 (id ids identif$8)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:40
S18 7	7	S186 AND "707"/$.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:43
S18 9	61	((generat$4 creat$3 mak$3 construct$4) WITH stream$5 WITH (unique$2 NEAR2 (id ids identif$8))). clm.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:47
S18 8	0	S185 AND (((free unused empty) NEAR4 (space$1 storage$1 record$3 memor$4 disc$1 disk$1)) NEAR6 manag$6)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:47
S18 6	68	S185 AND ((free unused empty) NEAR4 (space$1 storage$1 record$3 memor$4 disc$1 disk$1))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:47
S18 5	305	((generat$4 creat$3 mak$3 construct$4) WITH stream$5 WITH (unique$2 NEAR2 (id ids identif$8)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:47
S19 0	0	S189 AND ((free unused empty) NEAR4 (space$1 storage$1 record$3 memor$4 disc$1 disk$1)).clm.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:49
S18	2554	(record$3 NEAR4 mean$1)	USPAT	OR	OFF	2007/03/27 17:49
S19 2	1	S189 AND ((free unused empty available) NEAR4 (space$1 storage$1 record$3 memor$4 disc$1 disk$1 capacit$4)).clm.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:51
S19 1	1	S189 AND ((free unused empty available) NEAR4 (space$1 storage$1 record$3 memor$4 disc$1 disk$1)). clm.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:51

S19 4	9	S193 AND "707"/$.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:53
S19 3	124	S185 AND ((free unused empty available) NEAR4 (space$1 storage$1 record$3 memor$4 disc$1 disk$1 capacit$4))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:53
S18 4	305	((generat$4 creat$3 mak$3 construct$4) WITH stream$5 WITH (unique$2 NEAR2 (id ids identif$8)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:54
S19 6	2	S193 AND ((discard$3 delet$3 eras$3 trash$3) NEAR4 (id ids identif$8))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:56
S19 5	5	S193 AND ((reus$3 re-us$3 (used NEAR2 (again once))) NEAR4 (id ids identif$8))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:56

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Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
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Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

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3